

Temperature Measurement

B57660

Glass-Encapsulated Sensors

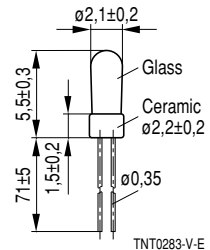
G 660

Applications

- Automotive electronics
- Industrial electronics
- Home appliances

Features

- For temperature measurement up to 300 °C and 350 °C respectively
- Mechanically reinforced by rugged ceramic disk
- High stability when subjected to heat cycling and aggressive environment
- Leads: dumet wires (copper-clad FeNi)



Dimensions  
in mm

Delivery mode

Bulk

Climatic category (IEC 60068-1)		55/300/56	
Resistance tolerance	$\Delta R_N/R_N$	$\pm 3\%, \pm 5\%$	
Dissipation factor (in air)	$\delta_{th}$	approx. 1,5	mW/K
Thermal cooling time constant (in air)	$\tau_c$	approx. 18	s

$R_{25}$	$R_{TN}$	$T_N$	No. of R/T characteristic	$B_{0/100}$	$B_{25/85}$	Ordering code
$\Omega$	$\Omega$	$^{\circ}\text{C}$		K	K	
2,2 k	6 k	0	8401	$3390 \pm 2\%$	3420	B57660G0222+000
5,4 k	15 k	0	8402	$3450 \pm 2\%$	3480	B57660G0542+000
10,7 k	30 k	0	8407	$3450 \pm 2\%$	3480	B57660G0113+000
49,1 k	3,3 k	100	8403	$3970 \pm 2\%$	3992	B57660G0493+000
98,6 k	0,55 k	200	8404	$4300 \pm 3\%^{1)}$	4066	B57660G0993+000
231,4 k	1 k	200	8405	$4537 \pm 3\%^{1)}$	4240	B57660G0234+000 <sup>3)</sup>
1388,1 k	4 k	200	8406	$5133 \pm 3\%^{2)}$	4557	B57660G0145+000 <sup>3)</sup>

+: H for  $\Delta R_N/R_N = \pm 3\%$

J for  $\Delta R_N/R_N = \pm 5\%$

1)  $B_{100/200}$

### Reliability data

Test	Standard	Test conditions	$\Delta R_{25}/R_{25}$ (typical)	Remarks
Storage in dry heat	IEC 60068-2-2	Storage at upper category temperature $T: 300\text{ }^{\circ}\text{C}$ $t: 1000\text{ h}$	< 3 %	No visible damage
Storage in damp heat, steady state	IEC 60068-2-3	Temperature of air: $85\text{ }^{\circ}\text{C}$ Relative humidity of air: 85 % Duration: 56 days	< 2 %	No visible damage
Rapid temperature cycling	IEC 60068-2-14	Lower test temperature: $-55\text{ }^{\circ}\text{C}$ Upper test temperature: $200\text{ }^{\circ}\text{C}$ Number of cycles: 1000	< 2 %	No visible damage

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